Course Syllabus

Course Title: Plants in the Hawaiian Environment

Course Numbers: BOT 130

Credits: 3

Time: Monday & Wednesday 10:00 am-11:15 am (Lecture)

Co-requisite: BOT 130-L

Course Description:
This course is a study of some of the plants which grow in Hawaii. Plants will be identified and discussed in regard to their form and structure. Evolution and ecology of the plants will also be considered.

This course will satisfy the diversification requirement in Biological Sciences (DB) (Group 1 of Natural Science)

Student learning outcomes:

1. Discuss geological history of the Hawaiian Islands and natural history of plants in Hawaii.

2. Discuss the arrival, establishment, major evolutionary trends and adaptive radiation of some of the surviving native species.

3. Discuss the natural and human-mediated changes in the ecosystem, and Interaction between native and introduced species of plants

4. Discuss botanical terminology for use in identifying native Hawaiian plants.

5. Demonstrate the ability to successfully propagate native and-non-native plants

6. Identify external and internal structures of leaves, stems, roots, and flowers, and become familiar with their function.

7. Name sub-cellular organelles in plant cells and explain their functions.

8. Analyze the biotic and abiotic forces that have shaped the Hawaiian Islands and their impact on evolution, distribution and endangerment of Hawaiian flora.
Grading Policy:

Your Grade for the course will be determined from the following procedures:

10% of grade: Attendance and Participation: Due to the nature of the course, attendance is mandatory for complete understanding of the material. Consideration is given to the student for the attendance, participation in the class discussions, student group activities and attitude throughout the course when calculating the final grade.

10% of grade: Weekly Quizzes: These will be questions from reading assignments and topics discussed in class the previous week. The weekly quiz will typically be given at the beginning of class on Wednesday. There is no make-up quiz if you are late for class.

20% of grade: Assignments: Various smaller assignments to help reinforce concepts. Some in class, some homework.

30% of grade: Two Cumulative Exams: Midterm (15%), and Final (15%)

30% of grade: Research Report and Presentation: Written Report (15%) and Presentation (15%): Each student is expected to write a research report on a native Hawaiian plant of their choosing. The paper will be 3-4 type-written pages in length (double spaced, 12 pt. font, including references) and each student will also give a 10 minute presentation on the topic using PowerPoint.

Final Grade Calculation:

90% or more      A
80% or more      B
70% or more      C
60% or more      D
Less than 60%   F

Attendance Policy:
Due to the nature of the course, attendance is mandatory for complete understanding of the material. Attendance will be taken at each class meeting.

REQUIRED TEXTBOOKS


DISABILITIES ACCOMMODATION STATEMENT
If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the
Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class.

9-17-2012